QC ABSTRACT

NAME OF WORK: Improvements to Roads & Drains at Byatarayanapura from Backside of Shivaji Bar to Beside Road of Titan Showroom in Ward No.07 Byatarayanapura.

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	Precast (100mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
7	PCC(M15)	Compressive Strength(7days and 28days)	4 set /31-50 cum	39.6	8	8
8	Cement Concrete Pavemet (M30)	Compressive Strength(7days and 28days)	5 set /51-100 cum	74	10	10

AE(RCC)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2020-10-14-53** **Date: 10-08-20**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads & Drains at Byatarayanapura from Backside of Shivaji Bar to Beside Road of Titan Showroom in Ward No.07 Byatarayanapura.
Agency	:	Sri.Vishnu M Gowda, H No:43/1, Kalleshwara Nilaya, Ranga Rao Road, Basavanagudi, Bangalore-560004.
Customer's Reference	:	BBMP/EE/BTP/WO/37/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-08-20
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	07-08-20
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.46	_
2	Finess by Air permeablity method (m^2/kg,Min)	255.8	225m^2/kg, Min
3	Density (gm/cc)	3.12	_
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	175 minutes	Not less than 30 minutes
6	Final Setting time	280 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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Samples will be disposed after 90 days from the date of issue of test certificate

ASHLY.N.D
AE(Civil)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2020-10-14-53** **Date: 04-09-20**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads & Drains at Byatarayanapura from Backside of Shivaji Bar to Beside Road of Titan Showroom in Ward No.07 Byatarayanapura.
Agency	:	Sri.Vishnu M Gowda, H No:43/1, Kalleshwara Nilaya, Ranga Rao Road, Basavanagudi, Bangalore-560004.
Customer's Reference	:	BBMP/EE/BTP/WO/37/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-08-20
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	07-08-20
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

* The results obtained are satisfactory as per standard requirements.

Note:

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AE(Ho)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mananagara Palike
Bangalore - 560 092

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2020-10-14-53** **Date: 10-08-20**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads & Drains at Byatarayanapura from Backside of Shivaji Bar to Beside Road of Titan Showroom in Ward No.07 Byatarayanapura.
Agency	:	Sri.Vishnu M Gowda, H No:43/1, Kalleshwara Nilaya, Ranga Rao Road, Basavanagudi, Bangalore-560004.
Customer's Reference	:	BBMP/EE/BTP/WO/37/2020-21
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	06-08-20
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	06-08-20

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	234	234	1.6	98.4	90-100
3	20 mm	5334	5568	37.1	62.9	30-70
4	10 mm	4788	10356	69.0	31.0	10-35
5	4.75 mm	4354	14710	98.1	1.9	0-5
6	Pan	290	15000	100.0	0	---

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.
Bangalore

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2020-10-14-53** **Date: 10-08-20**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.6	
3	Specific Gravity	2.69	–
4	Bulk Density(Loose) (Kg/l)	1.54	–
5	Bulk Density(Compacted) (Kg/l)	1.58	–
6	Water Absorption(%)	0.24	–

* The results obtained are satisfactory as per standard requirements.

Note:

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AE(QC)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mananagara Palike
Bangalore - 560 092

CIVIL Pro Sig..... Date..... BANGALORE

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2020-10-14-53** **Date: 08-08-20**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads & Drains at Byatarayanapura from Backside of Shivaji Bar to Beside Road of Titan Showroom in Ward No.07 Byatarayanapura.
Agency	:	Sri.Vishnu M Gowda, H No:43/1, Kalleshwara Nilaya, Ranga Rao Road, Basavanagudi, Bangalore-560004.
Customer Reference	:	BBMP/EE/BTP/WO/37/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-08-20
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	06-08-20

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	245	245	4.9	95.1	90-100
3	10 mm	2675	2920	58.4	41.6	25-55
4	4.75 mm	1798	4718	94.4	5.6	0-10
5	Pan	282	5000	100	0	_

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Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.
Bangalore

M : 9972924526 | Tel : +91 80 23414881 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2020-10-14-53** **Date: 08-08-20**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.2	
3	Specific Gravity	2.64	–
4	Bulk Density(Loose) (Kg/l)	1.52	–
5	Bulk Density(Compacted) (Kg/l)	1.56	–
6	Water Absorption(%)	0.24	–
7	Aggregate crushing Value(%)	22.6	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	21.8	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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AE(Mgt)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

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R KARTHIK RECHAN
Authorized Signature
Quality Manager

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2020-10-14-53** **Date: 08-08-20**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads & Drains at Byatarayanapura from Backside of Shivaji Bar to Beside Road of Titan Showroom in Ward No.07 Byatarayanapura.

Agency : Sri.Vishnu M Gowda, H No:43/1, Kalleshwara Nilaya, Ranga Rao Road, Basavanagudi, Bangalore-560004.

Customer's Reference : BBMP/EE/BTP/WO/37/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 06-08-20

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 06-08-20

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

Assistant Executive Engineer,
Kodigehalli Sub Divisio...
Yelahanka Zone, B.B.M.P.,
Bangalore.

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2020-10-14-53** **Date: 08-08-20**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	_
2	Specific Gravity	2.59	_
3	Material finer than 75 micron(%)	6.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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AE(Ret)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2020-10-14-53** **Date: 07-08-20**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads & Drains at Byatarayanapura from Backside of Shivaji Bar to Beside Road of Titan Showroom in Ward No.07 Byatarayanapura.
Agency	:	Sri.Vishnu M Gowda, H No:43/1, Kalleshwara Nilaya, Ranga Rao Road, Basavanagudi, Bangalore-560004.
Customer's Reference	:	BBMP/EE/BTP/WO/37/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-08-20
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	06-08-20

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

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BBMP.M.D
AE(WZ)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

CIVIL Pro Sig..... Date..... BANGALORE

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

End of Report

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
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TEST REPORT OF PRECAST COVER SLAB

Lab ID : **CP-2020-10-14-53** **Date: 21-08-20**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads & Drains at Byatarayanapura from Backside of Shivaji Bar to Beside Road of Titan Showroom in Ward No.07 Byatarayanapura.

Agency : Sri.Vishnu M Gowda, H No:43/1, Kalleshwara Nilaya, Ranga Rao Road, Basavanagudi, Bangalore-560004.

Customer's Reference : BBMP/EE/BTP/WO/37/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 17-08-20

Sample Type /Size : Precast Cover Slab (100mm)

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 17/08/2020

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.51	100.48	1.116	4477	80.9	18.1	16.8	21.0
2	Cover Slab-2	75.49	100.52	1.122	4475	82.3	18.4	17.1	21.4
3	Cover Slab-3	75.50	100.51	1.118	4476	81.5	18.2	16.9	21.2

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Note:

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AE(NS)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-10-14-53** **Date: 21/08/2020**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads & Drains at Byatarayanapura from Backside of Shivaji Bar to Beside Road of Titan Showroom in Ward No.07 Byatarayanapura.

Agency : Sri.Vishnu M Gowda, H No:43/1, Kalleshwara Nilaya, Ranga Rao Road, Basavanagudi, Bangalore-560004.

Customer's Reference : BBMP/EE/BTP/WO/37/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 17-08-20

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 21/08/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	14/08/2020	21/08/2020	151.58 X 149.22 X 149.56	22618	**8.296**	271.5	12.0	12.3
2	PCC	M15	14/08/2020	21/08/2020	149.35 X 149.98 X 151.99	22400	**8.636**	284.6	12.7	
3	PCC	M15	14/08/2020	21/08/2020	150.09 X 151.83 X 151.40	22789	**8.195**	280.1	12.3	

* The results obtained are satisfactory as per standard requirements.

Note:

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AE(Ury)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mananagara Palike
Bangalore - 560 092

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-10-14-53** **Date: 11/09/2020**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads & Drains at Byatarayanapura from Backside of Shivaji Bar to Beside Road of Titan Showroom in Ward No.07 Byatarayanapura.

Agency : Sri.Vishnu M Gowda, H No:43/1, Kalleshwara Nilaya, Ranga Rao Road, Basavanagudi, Bangalore-560004.

Customer's Reference : BBMP/EE/BTP/WO/37/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 17-08-20

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 11/09/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	14/08/2020	11/09/2020	149.59 X 151.83 X 150.09	22712	**8.104**	397.8	17.5	17.5
2	PCC	M15	14/08/2020	11/09/2020	151.27 X 149.71 X 149.15	22647	**8.481**	387.6	17.1	
3	PCC	M15	14/08/2020	11/09/2020	151.10 X 149.03 X 151.33	22518	**8.465**	403.9	17.9	

* The results obtained are satisfactory as per standard requirements.

Note:

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All information furnished by Customer/Representative
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Samples will be disposed after 90 days from the date of issue of test certificate

AE(WS)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore-560 092

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-10-14-53** **Date: 21/08/2020**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads & Drains at Byatarayanapura from Backside of Shivaji Bar to Beside Road of Titan Showroom in Ward No.07 Byatarayanapura.

Agency : Sri.Vishnu M Gowda, H No:43/1, Kalleshwara Nilaya, Ranga Rao Road, Basavanagudi, Bangalore-560004.

Customer's Reference : BBMP/EE/BTP/WO/37/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 17-08-20

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 21/08/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	14/08/2020	21/08/2020	151.43 X 151.42 X 150.70	22929	**8.296**	283.5	12.4	
2	PCC	M15	14/08/2020	21/08/2020	151.17 X 150.82 X 150.86	22800	**8.636**	294.1	12.9	12.7
3	PCC	M15	14/08/2020	21/08/2020	149.35 X 151.11 X 151.33	22568	**8.195**	286.9	12.7	

* The results obtained are satisfactory as per standard requirements.

Note:

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All information furnished by Customer/Representative
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Samples will be disposed after 90 days from the date of issue of test certificate

AE (Wst)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560092

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-10-14-53** **Date: 11/09/2020**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads & Drains at Byatarayanapura from Backside of Shivaji Bar to Beside Road of Titan Showroom in Ward No.07 Byatarayanapura.

Agency : Sri.Vishnu M Gowda, H No:43/1, Kalleshwara Nilaya, Ranga Rao Road, Basavanagudi, Bangalore-560004.

Customer's Reference : BBMP/EE/BTP/WO/37/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 17-08-20

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 11/09/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	14/08/2020	11/09/2020	152.00 X 150.37 X 151.89	22856	**8.104**	402.0	17.6	17.8
2	PCC	M15	14/08/2020	11/09/2020	151.52 X 149.69 X 150.72	22681	**8.481**	405.3	17.9	
3	PCC	M15	14/08/2020	11/09/2020	150.99 X 149.75 X 151.91	22611	**8.465**	402.4	17.8	

* The results obtained are satisfactory as per standard requirements.

Note:

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AE(W2)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-10-14-53** **Date: 21/08/2020**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads & Drains at Byatarayanapura from Backside of Shivaji Bar to Beside Road of Titan Showroom in Ward No.07 Byatarayanapura.

Agency : Sri.Vishnu M Gowda, H No:43/1, Kalleshwara Nilaya, Ranga Rao Road, Basavanagudi, Bangalore-560004.

Customer's Reference : BBMP/EE/BTP/WO/37/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 17-08-20

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 21/08/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	14/08/2020	21/08/2020	149.62 X 150.39 X 151.71	22501	**8.296**	290.0	12.9	12.7
2	PCC	M15	14/08/2020	21/08/2020	150.97 X 151.45 X 151.78	22863	**8.636**	291.7	12.8	
3	PCC	M15	14/08/2020	21/08/2020	149.05 X 150.58 X 151.44	22444	**8.195**	277.8	12.4	

* The results obtained are satisfactory as per standard requirements.

Note:

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Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

FOR CIVIL Pro.

Sig.....
Date.....

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-10-14-53** **Date: 11/09/2020**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads & Drains at Byatarayanapura from Backside of Shivaji Bar to Beside Road of Titan Showroom in Ward No.07 Byatarayanapura.

Agency : Sri.Vishnu M Gowda, H No:43/1, Kalleshwara Nilaya, Ranga Rao Road, Basavanagudi, Bangalore-560004.

Customer's Reference : BBMP/EE/BTP/WO/37/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 17-08-20

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 11/09/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	14/08/2020	11/09/2020	150.75 X 151.64 X 151.45	22858	**8.104**	399.0	17.5	17.6
2	PCC	M15	14/08/2020	11/09/2020	151.93 X 150.69 X 151.19	22894	**8.481**	407.5	17.8	
3	PCC	M15	14/08/2020	11/09/2020	150.35 X 152.00 X 151.03	22853	**8.465**	403.7	17.7	

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Samples will be disposed after 90 days from the date of issue of test certificate

AE (Asst)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore-560 092

CIVIL Pro ★ Sig..... Date..... ★ BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-10-14-53** **Date: 21/08/2020**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads & Drains at Byatarayanapura from Backside of Shivaji Bar to Beside Road of Titan Showroom in Ward No.07 Byatarayanapura.

Agency : Sri.Vishnu M Gowda, H No:43/1, Kalleshwara Nilaya, Ranga Rao Road, Basavanagudi, Bangalore-560004.

Customer's Reference : BBMP/EE/BTP/WO/37/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 17-08-20

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 21/08/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	14/08/2020	21/08/2020	151.89 X 149.72 X 149.52	22742	**8.296**	278.0	12.2	12.4
2	PCC	M15	14/08/2020	21/08/2020	149.71 X 149.16 X 149.73	22330	**8.636**	276.6	12.4	
3	PCC	M15	14/08/2020	21/08/2020	150.87 X 150.36 X 150.93	22686	**8.195**	286.7	12.6	

* The results obtained are satisfactory as per standard requirements.

Note:

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Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore-560 092

FOR CIVIL Pro.

CIVIL Pro BANGALORE
Sig.....
Date.....

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-10-14-53** **Date: 11/09/2020**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads & Drains at Byatarayanapura from Backside of Shivaji Bar to Beside Road of Titan Showroom in Ward No.07 Byatarayanapura.

Agency : Sri.Vishnu M Gowda, H No:43/1, Kalleshwara Nilaya, Ranga Rao Road, Basavanagudi, Bangalore-560004.

Customer's Reference : BBMP/EE/BTP/WO/37/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 17-08-20

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 11/09/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	14/08/2020	11/09/2020	149.28 X 150.11 X 150.89	22409	**8.104**	388.4	17.3	17.4
2	PCC	M15	14/08/2020	11/09/2020	150.77 X 151.19 X 150.20	22794	**8.481**	395.4	17.3	
3	PCC	M15	14/08/2020	11/09/2020	149.97 X 150.43 X 150.37	22560	**8.465**	396.9	17.6	

* The results obtained are satisfactory as per standard requirements.

Note:

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AE(W2)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

CIVIL Pro
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Date.....
BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-10-14-53** **Date: 28/08/2020**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads & Drains at Byatarayanapura from Backside of Shivaji Bar to Beside Road of Titan Showroom in Ward No.07 Byatarayanapura.

Agency : Sri.Vishnu M Gowda, H No:43/1, Kalleshwara Nilaya, Ranga Rao Road, Basavanagudi, Bangalore-560004.

Customer's Reference : BBMP/EE/BTP/WO/37/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 24-08-20

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 28/08/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	21/08/2020	28/08/2020	150.21 X 149.32 X 149.31	22429	8.860	574.4	25.6	25.5
2	Cement Concrete Pavement	M30	21/08/2020	28/08/2020	151.62 X 150.88 X 151.59	22876	8.291	597.0	26.1	
3	Cement Concrete Pavement	M30	21/08/2020	28/08/2020	149.26 X 150.33 X 150.31	22439	8.742	555.6	24.8	

* The results obtained are satisfactory as per standard requirements.

Note:

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AE (Retd)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-10-14-53** **Date: 18/09/2020**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads & Drains at Byatarayanapura from Backside of Shivaji Bar to Beside Road of Titan Showroom in Ward No.07 Byatarayanapura.

Agency : Sri.Vishnu M Gowda, H No:43/1, Kalleshwara Nilaya, Ranga Rao Road, Basavanagudi, Bangalore-560004.

Customer's Reference : BBMP/EE/BTP/WO/37/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 24-08-20

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 18/09/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	21/08/2020	18/09/2020	151.59 X 149.47 X 151.57	22657	8.564	755.9	33.4	33.0
2	Cement Concrete Pavement	M30	21/08/2020	18/09/2020	151.78 X 150.37 X 150.69	22824	8.589	740.2	32.4	
3	Cement Concrete Pavement	M30	21/08/2020	18/09/2020	150.71 X 150.21 X 151.54	22639	8.554	752.0	33.2	

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
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Samples will be disposed after 90 days from the date of issue of test certificate

AE(Ush)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-10-14-53** **Date: 28/08/2020**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads & Drains at Byatarayanapura from Backside of Shivaji Bar to Beside Road of Titan Showroom in Ward No.07 Byatarayanapura.

Agency : Sri.Vishnu M Gowda, H No:43/1, Kalleshwara Nilaya, Ranga Rao Road, Basavanagudi, Bangalore-560004.

Customer's Reference : BBMP/EE/BTP/WO/37/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 24-08-20

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 28/08/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	21/08/2020	28/08/2020	151.95 X 150.00 X 150.15	22793	**8.860**	585.7	25.7	25.7
2	Cement Concrete Pavement	M30	21/08/2020	28/08/2020	151.81 X 151.01 X 151.20	22925	**8.291**	607.1	26.5	
3	Cement Concrete Pavement	M30	21/08/2020	28/08/2020	149.25 X 151.79 X 149.57	22655	**8.742**	562.1	24.8	

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
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Samples will be disposed after 90 days from the date of issue of test certificate

AE(Ust)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

CIVIL Pro Sig..... Date..... BANGALORE

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-10-14-53** **Date: 18/09/2020**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads & Drains at Byatarayanapura from Backside of Shivaji Bar to Beside Road of Titan Showroom in Ward No.07 Byatarayanapura.

Agency : Sri.Vishnu M Gowda, H No:43/1, Kalleshwara Nilaya, Ranga Rao Road, Basavanagudi, Bangalore-560004.

Customer's Reference : BBMP/EE/BTP/WO/37/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 24-08-20

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 18/09/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	21/08/2020	18/09/2020	151.21 X 149.50 X 150.67	22607	8.564	768.3	34.0	33.1
2	Cement Concrete Pavement	M30	21/08/2020	18/09/2020	150.72 X 151.96 X 150.30	22904	8.589	735.2	32.1	
3	Cement Concrete Pavement	M30	21/08/2020	18/09/2020	149.31 X 149.96 X 150.40	22390	8.554	746.6	33.3	

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
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Samples will be disposed after 90 days from the date of issue of test certificate

AE(Ves)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

CIVIL Pro Sig..... Date..... BANGALORE

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-10-14-53** **Date: 28/08/2020**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads & Drains at Byatarayanapura from Backside of Shivaji Bar to Beside Road of Titan Showroom in Ward No.07 Byatarayanapura.

Agency : Sri.Vishnu M Gowda, H No:43/1, Kalleshwara Nilaya, Ranga Rao Road, Basavanagudi, Bangalore-560004.

Customer's Reference : BBMP/EE/BTP/WO/37/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 24-08-20

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 28/08/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	21/08/2020	28/08/2020	150.93 X 151.70 X 149.06	22897	**8.860**	595.2	26.0	25.8
2	Cement Concrete Pavement	M30	21/08/2020	28/08/2020	150.35 X 151.52 X 150.43	22781	**8.291**	603.3	26.5	
3	Cement Concrete Pavement	M30	21/08/2020	28/08/2020	149.31 X 151.00 X 149.74	22547	**8.742**	559.2	24.8	

* The results obtained are satisfactory as per standard requirements.

Note:

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All information furnished by Customer/Representative
Any correction in the report will make this report invalid
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Samples will be disposed after 90 days from the date of issue of test certificate

M.N.D
AE (W)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

CIVIL Pro
Sig.....
Date.....
BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-10-14-53** **Date: 18/09/2020**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads & Drains at Byatarayanapura from Backside of Shivaji Bar to Beside Road of Titan Showroom in Ward No.07 Byatarayanapura.

Agency : Sri.Vishnu M Gowda, H No:43/1, Kalleshwara Nilaya, Ranga Rao Road, Basavanagudi, Bangalore-560004.

Customer's Reference : BBMP/EE/BTP/WO/37/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 24-08-20

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 18/09/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	21/08/2020	18/09/2020	150.26 X 149.83 X 149.16	22514	**8.564**	756.9	33.6	33.3
2	Cement Concrete Pavement	M30	21/08/2020	18/09/2020	151.75 X 150.02 X 151.68	22765	**8.589**	737.7	32.4	
3	Cement Concrete Pavement	M30	21/08/2020	18/09/2020	150.09 X 150.68 X 149.30	22616	**8.554**	764.3	33.8	

* The results obtained are satisfactory as per standard requirements.

Note:

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Asst. Exe. Engr
AE(Ward)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

CIVIL Pro
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Date.....
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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-10-14-53** **Date: 28/08/2020**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads & Drains at Byatarayanapura from Backside of Shivaji Bar to Beside Road of Titan Showroom in Ward No.07 Byatarayanapura.

Agency : Sri.Vishnu M Gowda, H No:43/1, Kalleshwara Nilaya, Ranga Rao Road, Basavanagudi, Bangalore-560004.

Customer's Reference : BBMP/EE/BTP/WO/37/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 24-08-20

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 28/08/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	21/08/2020	28/08/2020	149.34 X 151.21 X 149.93	22581	**8.860**	576.3	25.5	25.6
2	Cement Concrete Pavement	M30	21/08/2020	28/08/2020	150.83 X 150.48 X 151.21	22697	**8.291**	601.0	26.5	
3	Cement Concrete Pavement	M30	21/08/2020	28/08/2020	151.69 X 151.23 X 150.99	22940	**8.742**	568.1	24.8	

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AE(Ad)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore-560 092

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-10-14-53** **Date: 18/09/2020**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads & Drains at Byatarayanapura from Backside of Shivaji Bar to Beside Road of Titan Showroom in Ward No.07 Byatarayanapura.

Agency : Sri.Vishnu M Gowda, H No:43/1, Kalleshwara Nilaya, Ranga Rao Road, Basavanagudi, Bangalore-560004.

Customer's Reference : BBMP/EE/BTP/WO/37/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 24-08-20

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : *18/09/2020*

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	21/08/2020	18/09/2020	150.59 X 149.46 X 149.10	22507	**8.564**	751.3	33.4	32.9
2	Cement Concrete Pavement	M30	21/08/2020	18/09/2020	151.26 X 149.89 X 151.37	22673	**8.589**	727.8	32.1	
3	Cement Concrete Pavement	M30	21/08/2020	18/09/2020	150.41 X 149.28 X 150.98	22453	**8.554**	748.8	33.3	

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AE(Ret)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

CIVIL PRO BANGALORE Sig. Date.

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R KARTHIK RECHAN
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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-10-14-53** **Date: 28/08/2020**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads & Drains at Byatarayanapura from Backside of Shivaji Bar to Beside Road of Titan Showroom in Ward No.07 Byatarayanapura.

Agency : Sri.Vishnu M Gowda, H No:43/1, Kalleshwara Nilaya, Ranga Rao Road, Basavanagudi, Bangalore-560004.

Customer's Reference : BBMP/EE/BTP/WO/37/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 24-08-20

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 28/08/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	21/08/2020	28/08/2020	149.69 X 150.47 X 150.25	22525	**8.860**	578.3	25.7	25.5
2	Cement Concrete Pavement	M30	21/08/2020	28/08/2020	151.40 X 151.00 X 149.19	22862	**8.291**	595.6	26.1	
3	Cement Concrete Pavement	M30	21/08/2020	28/08/2020	150.34 X 150.05 X 150.67	22559	**8.742**	561.4	24.9	

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Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike

CIVIL Pro Sig. Date BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-10-14-53** **Date: 18/09/2020**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

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Customer's Reference : BBMP/EE/BTP/WO/37/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 24-08-20

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 18/09/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	21/08/2020	18/09/2020	149.47 X 150.26 X 151.76	22460	**8.564**	758.9	33.8	33.5
2	Cement Concrete Pavement	M30	21/08/2020	18/09/2020	151.19 X 150.99 X 150.63	22828	**8.589**	747.6	32.7	
3	Cement Concrete Pavement	M30	21/08/2020	18/09/2020	150.79 X 149.20 X 149.67	22498	**8.554**	762.2	33.9	

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AE(WZ)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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